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ABSTRACT OF THE DISCLOSURE

The invention provides an economic process for the manufacture of the hydrofluorocarbon 1,1,3,3,3-pentafluoropropene (HFC-1225zc). HFC-1225zc
5 can be made from the dehydrochlorination of 1-chloro-1,1,3,3,3-pentafluoropropane (HCFC-235fa). Alternatively, HFC-1225zc can also be made from the dehydrofluorination of 1,1,1,3,3,3-hexafluoropropane (HFC-236fa). HFC-1225zc) is a compound that has the potential to be used as a low Global Warming Potential refrigerant, blowing agent, aerosol propellant, or solvent.